

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100219\
 Data File : VX012754.D
 Acq On : 02 Oct 2019 12:30
 Operator : JC/SP
 Sample : K5082-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 03 01:30:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092319W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 23 12:27:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	155083	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	270312	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	220295	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	74339	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	108494	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
35) Dibromofluoromethane	5.49	113	82627	51.33	ug/l	0.00
Spiked Amount			Recovery	=	102.66%	
50) Toluene-d8	8.71	98	316207	51.00	ug/l	0.00
Spiked Amount			Recovery	=	102.00%	
62) 4-Bromofluorobenzene	11.14	95	97502	40.00	ug/l	0.00
Spiked Amount			Recovery	=	80.00%	

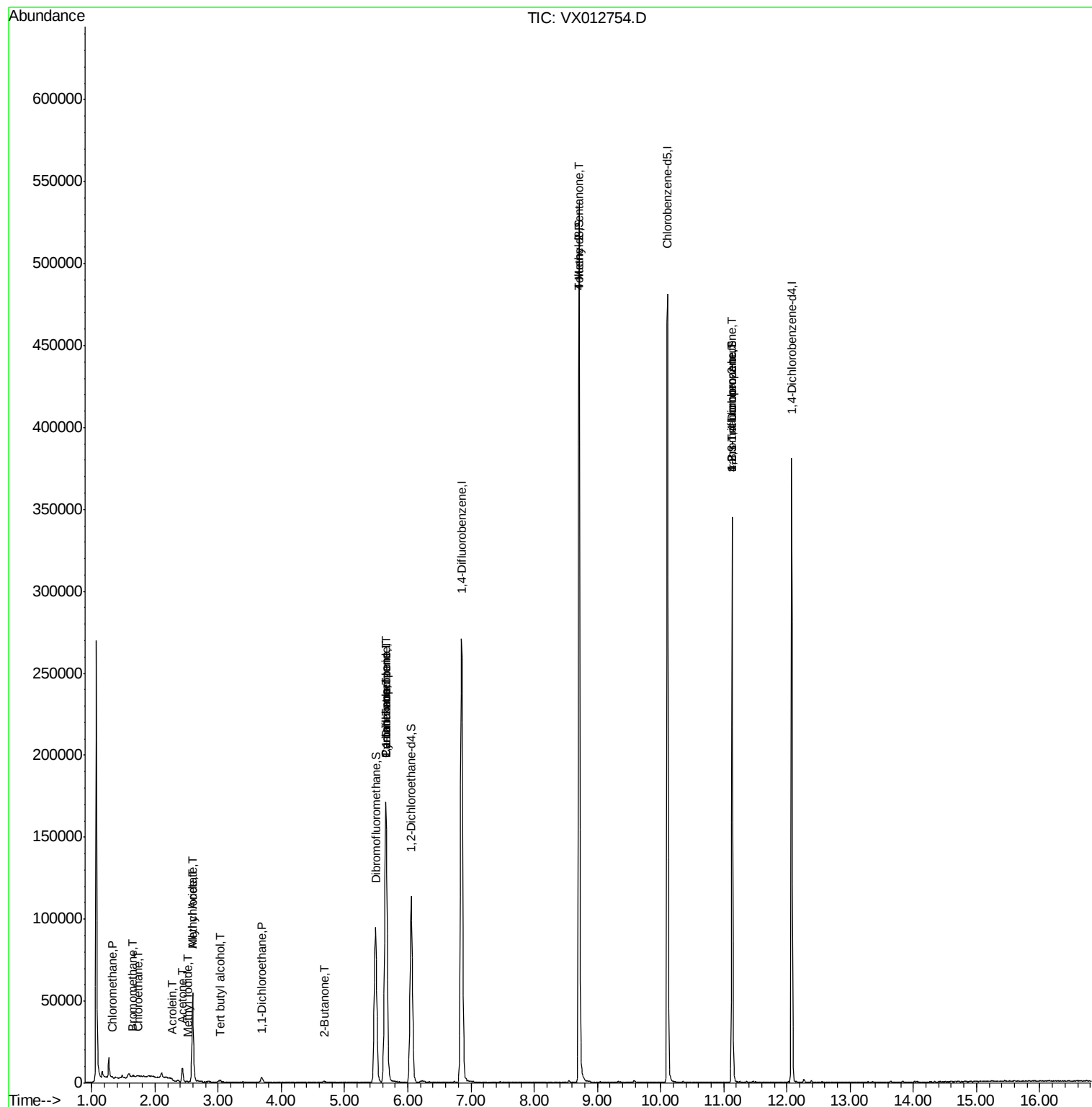
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	403	0.201	ug/l	96
5) Bromomethane	1.64	94	470	0.600	ug/l #	45
6) Chloroethane	1.73	64	1033	0.770	ug/l #	57
10) Methyl Iodide	2.51	142	326	5.117	ug/l #	58
11) Tert butyl alcohol	3.04	59	1423	2.522	ug/l #	89
13) Acrolein	2.27	56	144	10.672	ug/l #	71
14) Allyl chloride	2.59	41	5303	1.603	ug/l #	65
16) Acetone	2.44	43	9160	7.658	ug/l	95
18) Methyl Acetate	2.59	43	13942	4.950	ug/l #	54
24) 1,1-Dichloroethane	3.69	63	3508	1.010	ug/l	98
25) 2-Butanone	4.69	43	348	0.203	ug/l #	51
31) Cyclohexane	5.65	56	3861	1.228	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	12749	4.893	ug/l #	52
38) Carbon Tetrachloride	5.65	117	16847	6.365	ug/l #	17
51) 4-Methyl-2-Pentanone	8.71	43	1497	0.476	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	49508	25.176	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	49508	72.150	ug/l #	8

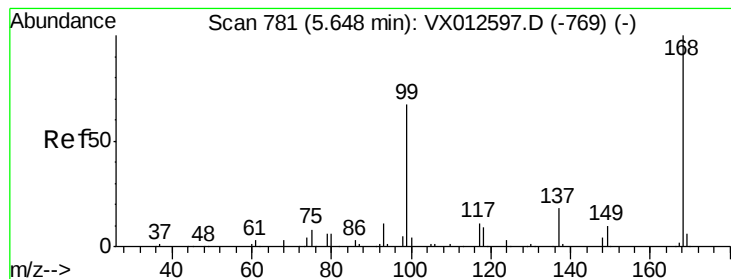
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 23 12:27:01 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

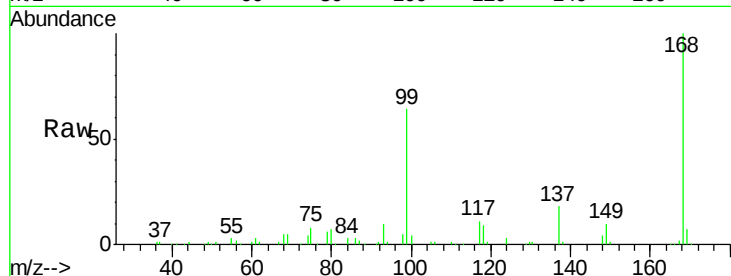
ClientSampled :

Tot Ion:168 Resp: 155083

Ion Ratio Lower Upper

168 100

99 64.1 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

60000

50000

40000

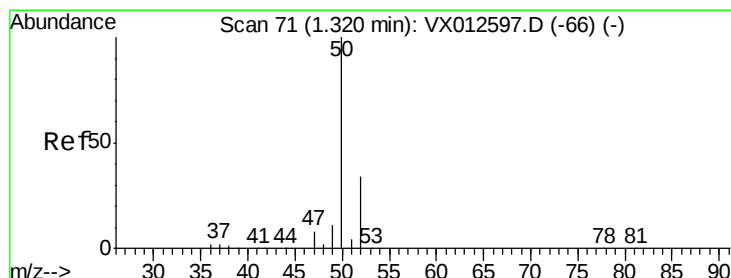
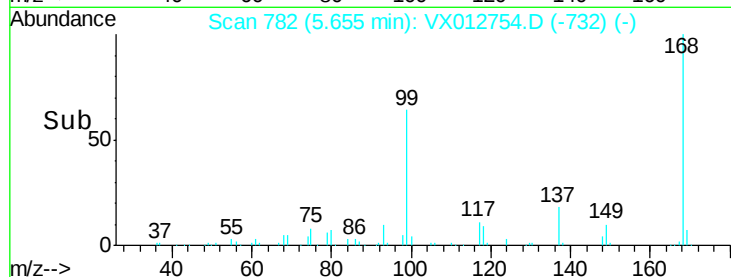
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.201 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012754.D

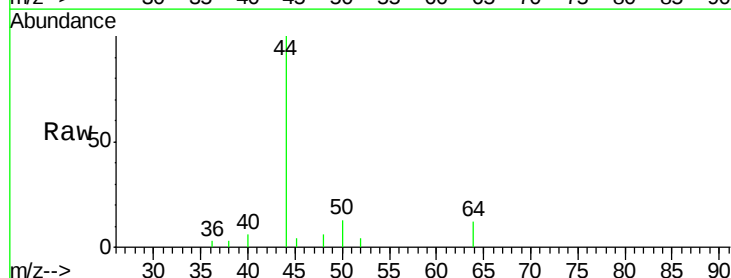
Acq: 02 Oct 2019 12:30

Tgt Ion: 50 Resp: 403

Ion Ratio Lower Upper

50 100

52 34.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

400

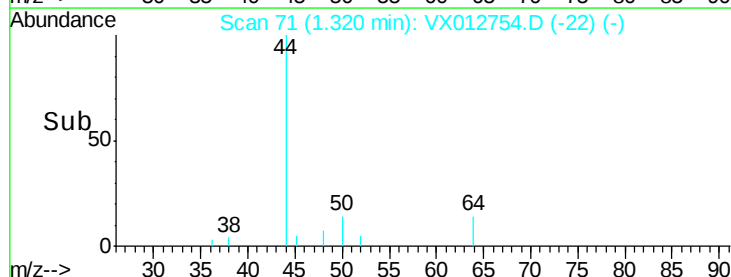
300

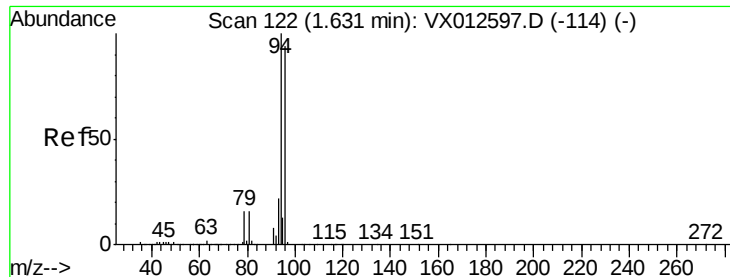
200

100

0

Time--> 1.28 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 0.600 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.02 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

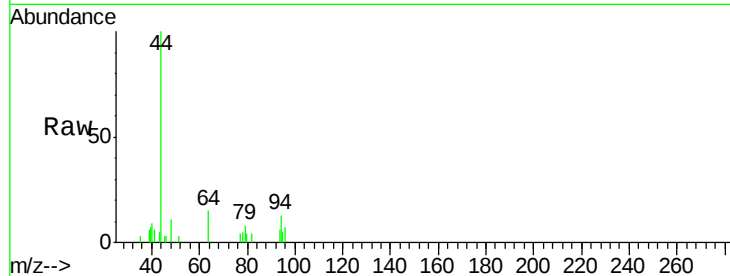
ClientSampled :

Tot Ion: 94 Resp: 470

Ion Ratio Lower Upper

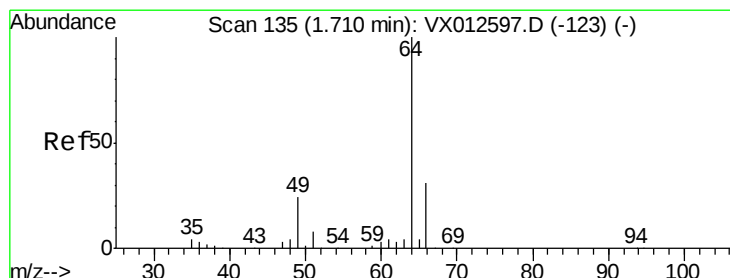
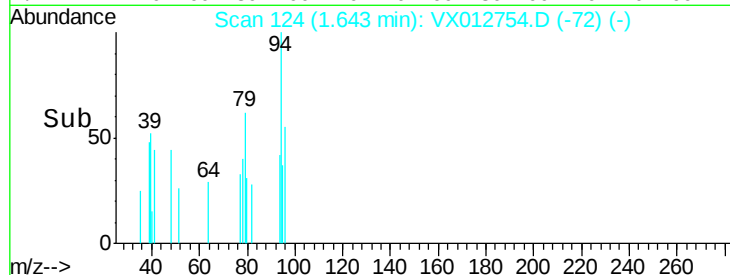
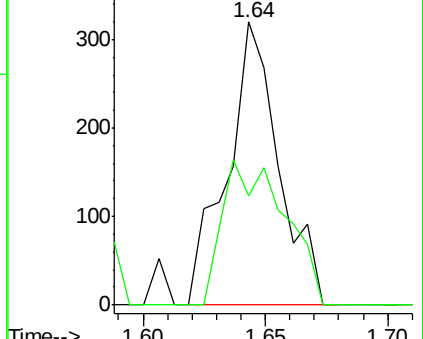
94 100

96 38.4 72.8 109.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.770 ug/l

RT: 1.73 min Scan# 138

Delta R.T. 0.02 min

Lab File: VX012754.D

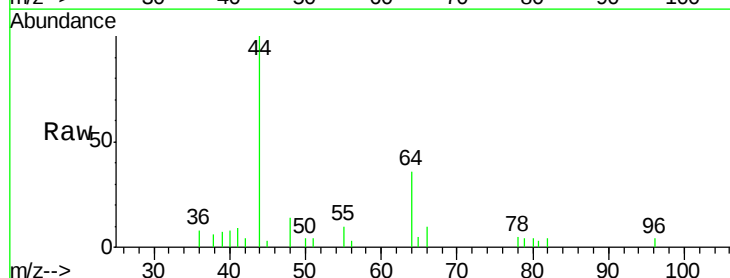
Acq: 02 Oct 2019 12:30

Tgt Ion: 64 Resp: 1033

Ion Ratio Lower Upper

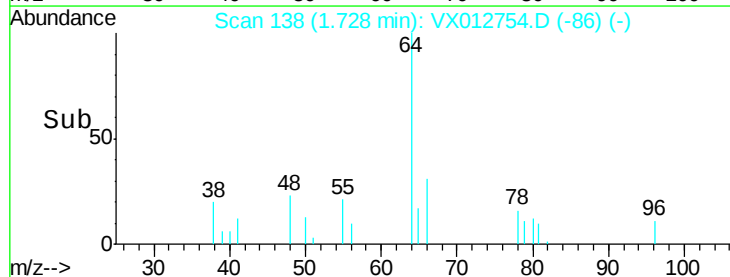
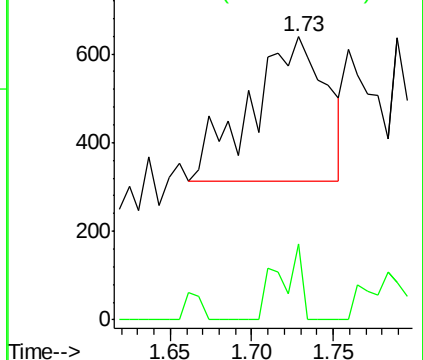
64 100

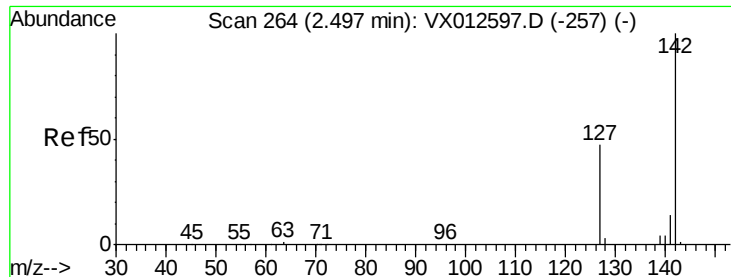
66 53.4 24.0 36.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

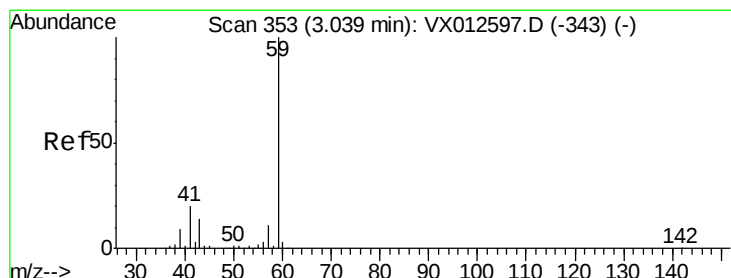
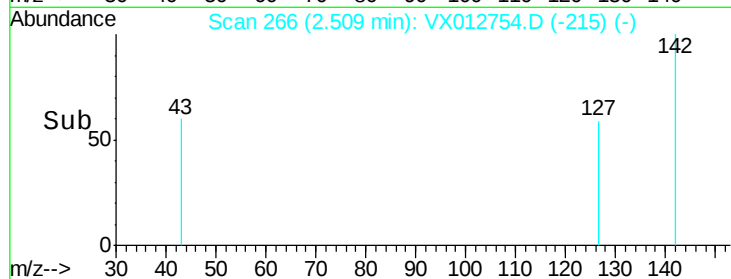
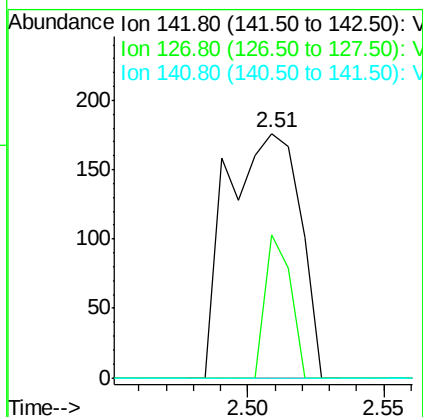
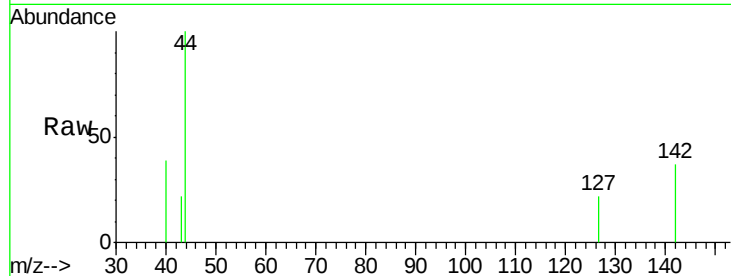




#10
Methvl Iodide
Concen: 5.117 ug/l
RT: 2.51 min Scan# 266
Delta R.T. 0.01 min
Lab File: VX012754.D
Acq: 02 Oct 2019 12:30

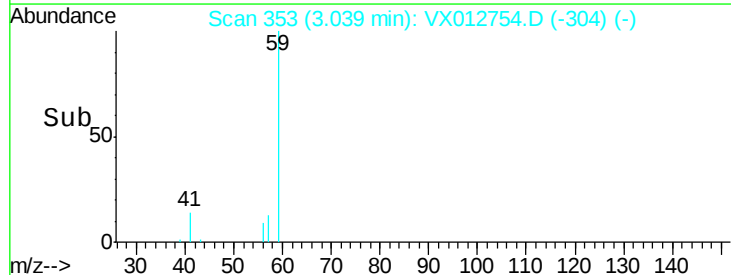
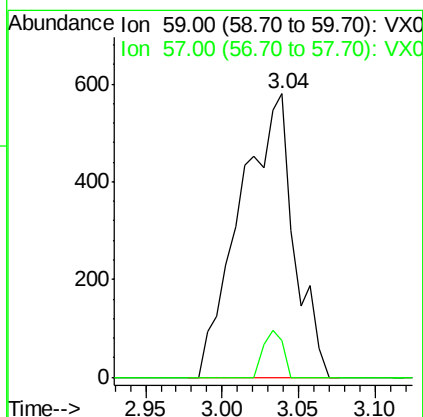
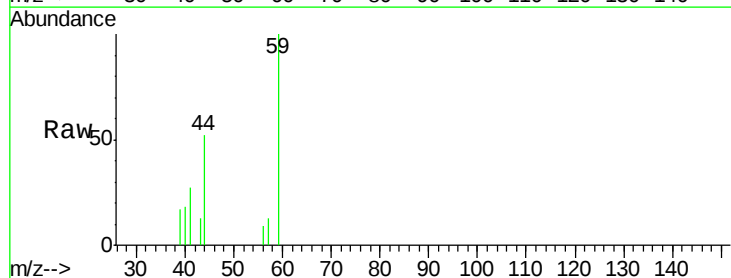
Instrument :
MSVOA_X
ClientSampleId :

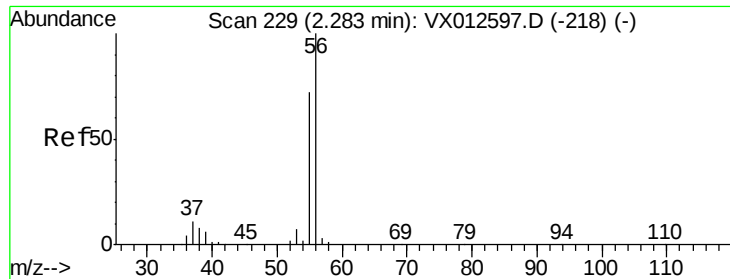
Tot Ion:142 Resp: 326
Ion Ratio Lower Upper
142 100
127 20.6 40.8 61.2#
141 0.0 12.1 18.1#



#11
Tert butyl alcohol
Concen: 2.522 ug/l
RT: 3.04 min Scan# 353
Delta R.T. 0.00 min
Lab File: VX012754.D
Acq: 02 Oct 2019 12:30

Tgt Ion: 59 Resp: 1423
Ion Ratio Lower Upper
59 100
57 6.1 8.3 12.5#





#13

Acrolein

Concen: 10.672 ug/l

RT: 2.27 min Scan# 227

Delta R.T. -0.01 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

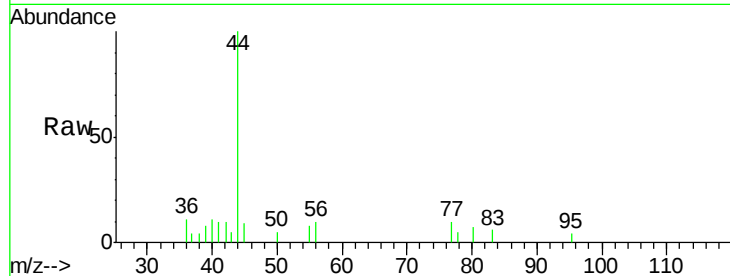
ClientSampleId :

Tot Ion: 56 Resp: 144

Ion Ratio Lower Upper

56 100

55 93.8 55.8 83.8#

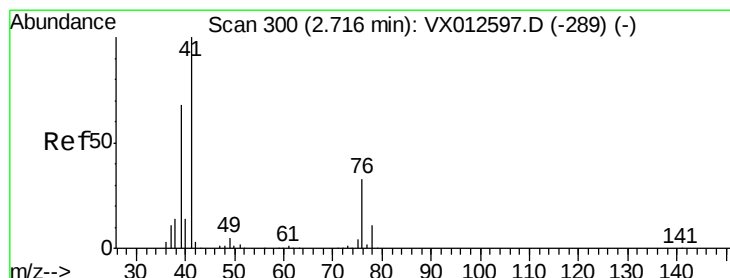
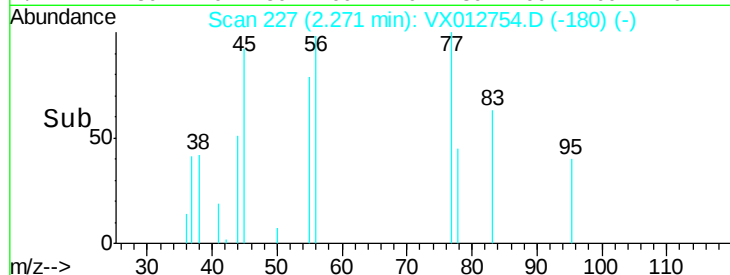


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.27

Time-->



#14

Allyl chloride

Concen: 1.603 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.12 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

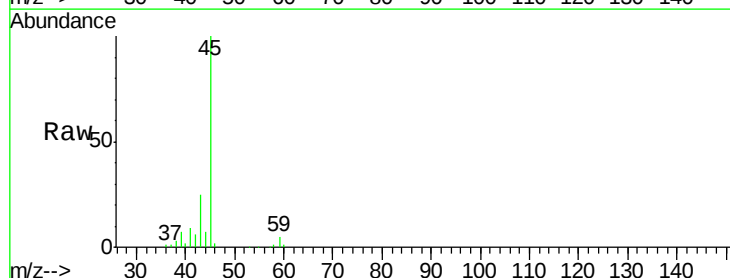
Tgt Ion: 41 Resp: 5303

Ion Ratio Lower Upper

41 100

39 85.3 51.3 76.9#

76 0.0 22.6 33.8#



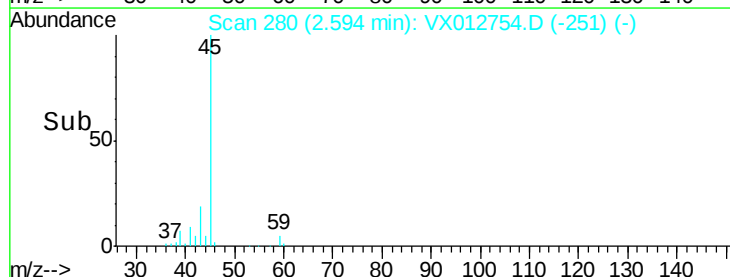
Abundance Ion 41.00 (40.70 to 41.70): VX0

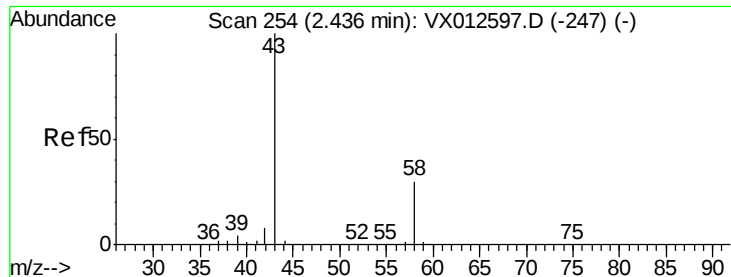
Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

2.59

Time-->





#16

Acetone

Concen: 7.658 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

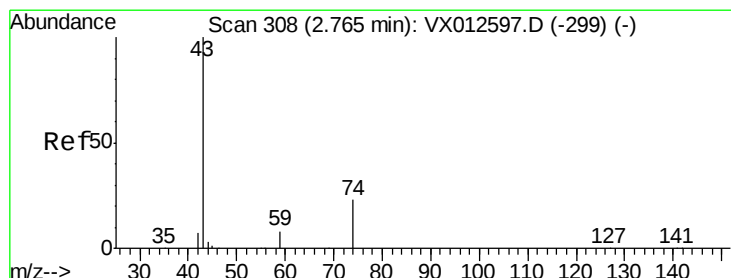
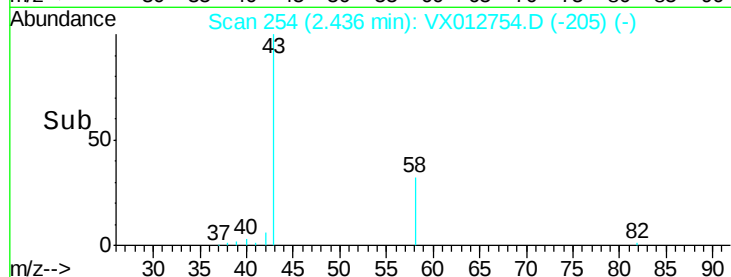
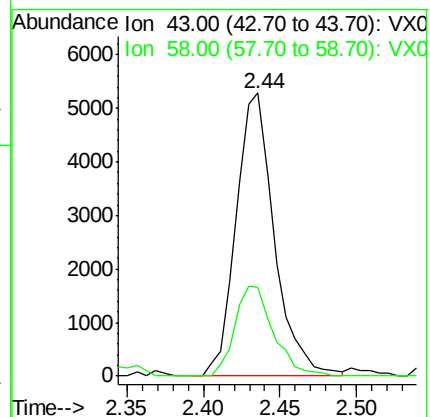
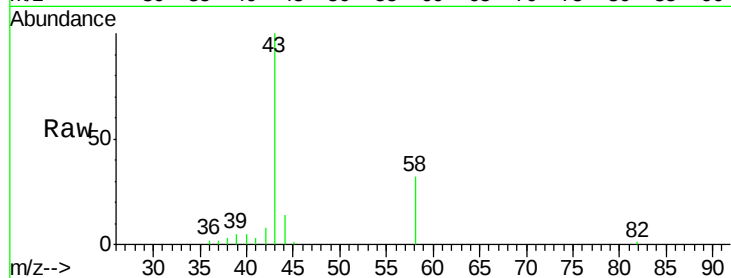
ClientSampled :

Tot Ion: 43 Resp: 9160

Ion Ratio Lower Upper

43 100

58 31.5 23.3 34.9



#18

Methyl Acetate

Concen: 4.950 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012754.D

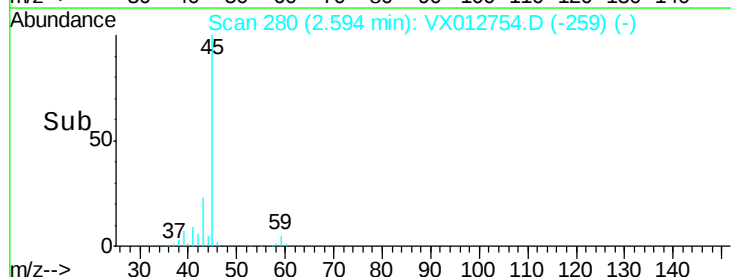
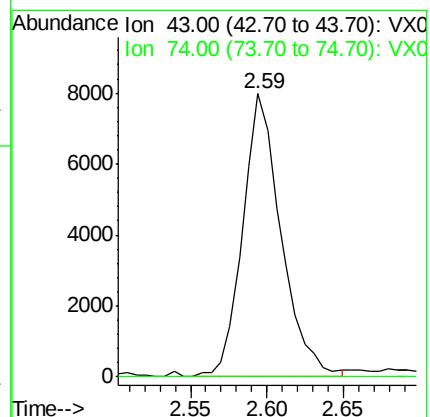
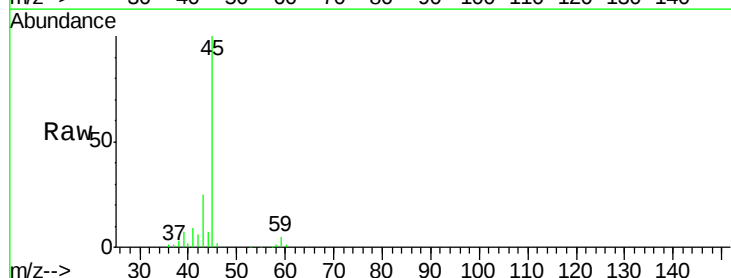
Acq: 02 Oct 2019 12:30

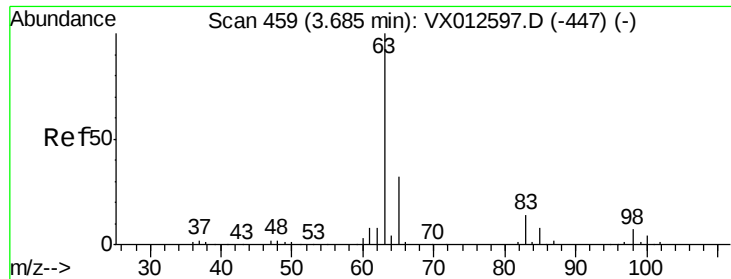
Tgt Ion: 43 Resp: 13942

Ion Ratio Lower Upper

43 100

74 0.0 17.7 26.5#





#24

1,1-Dichloroethane

Concen: 1.010 ug/l

RT: 3.69 min Scan# 460

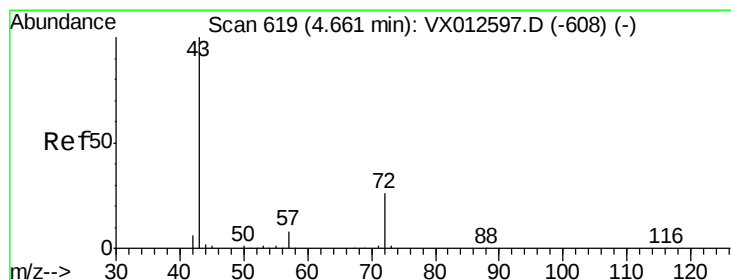
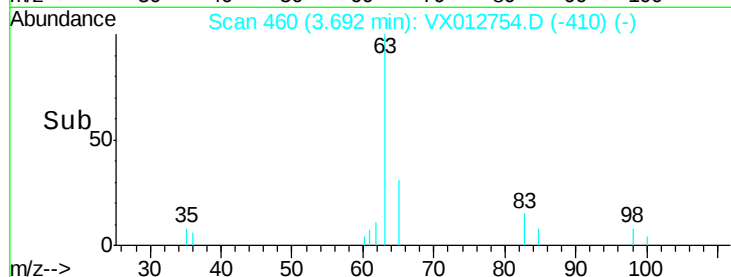
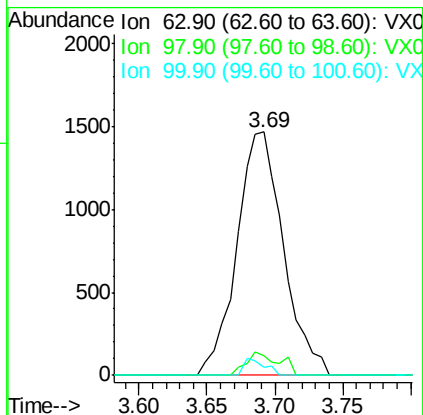
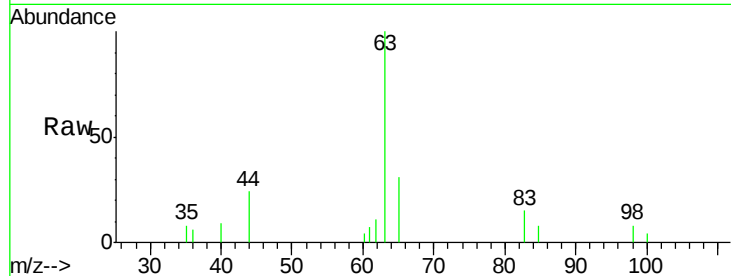
Delta R.T. 0.01 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	63	Resp:	3508
Ion	Ratio	Lower	Upper
63	100		
98	8.0	3.9	11.7
100	3.5	2.3	6.9



#25

2-Butanone

Concen: 0.203 ug/l

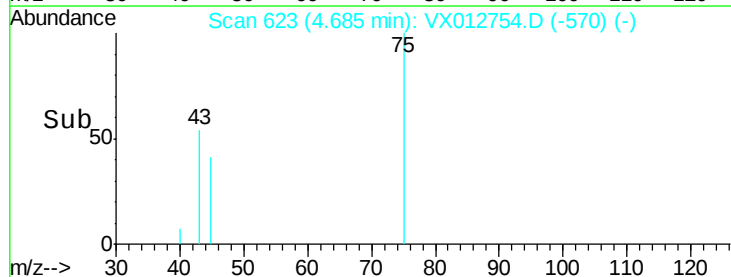
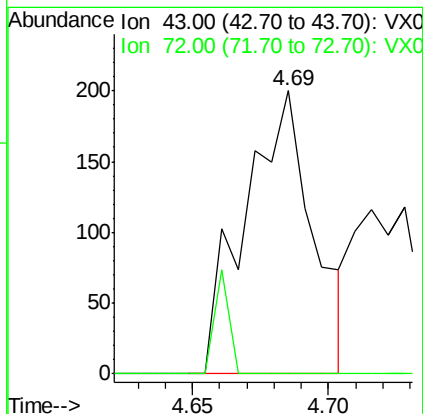
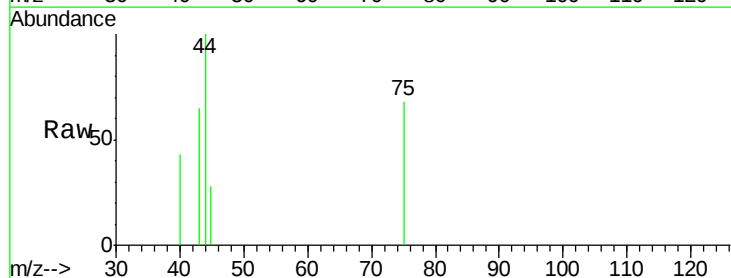
RT: 4.69 min Scan# 623

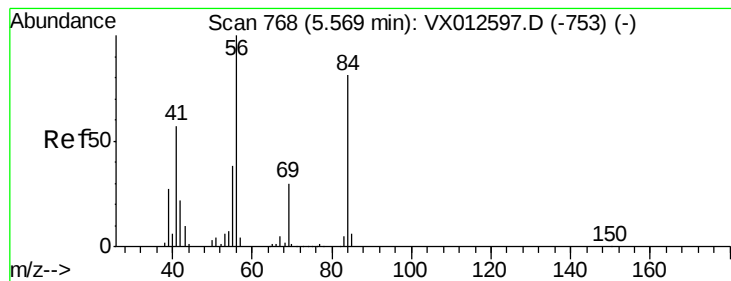
Delta R.T. 0.02 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Tgt Ion:	43	Resp:	348
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.2	28.8#





#31

Cyclohexane

Concen: 1.228 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :
MSVOA_X
ClientSampleId :

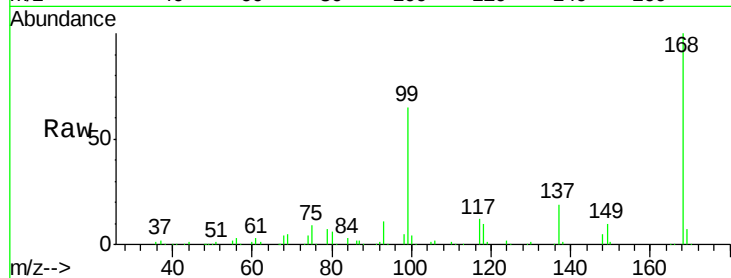
Tot Ion: 56 Resp: 3861

Ion Ratio Lower Upper

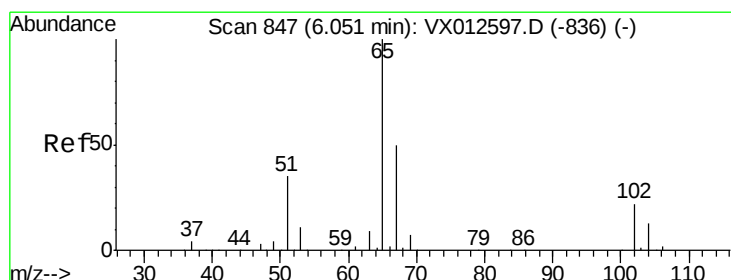
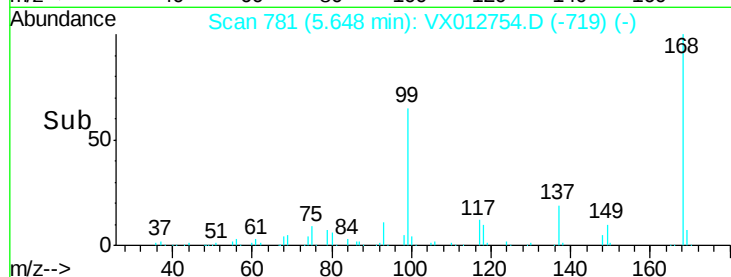
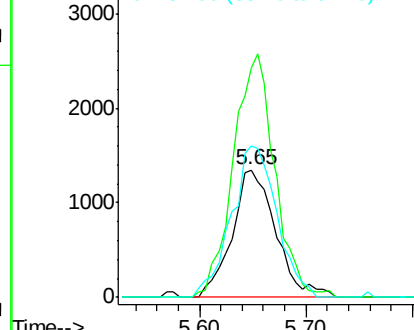
56 100

69 180.0 25.0 37.6#

84 119.0 66.4 99.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 48.042 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX012754.D

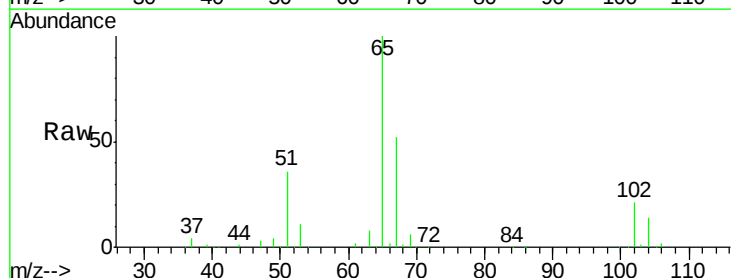
Acq: 02 Oct 2019 12:30

Tgt Ion: 65 Resp: 108494

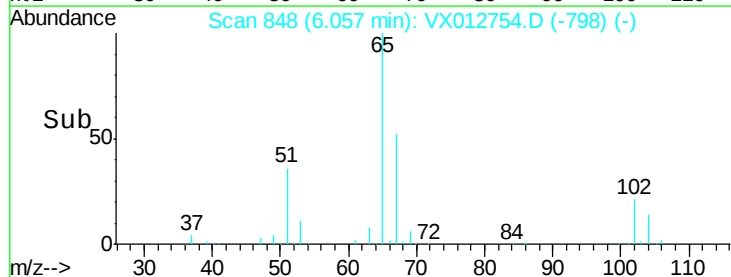
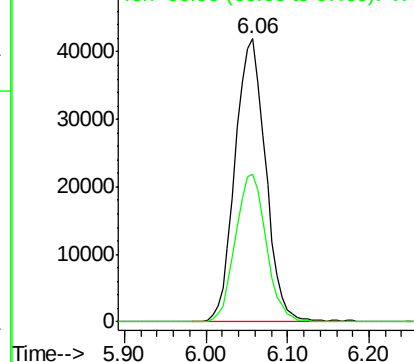
Ion Ratio Lower Upper

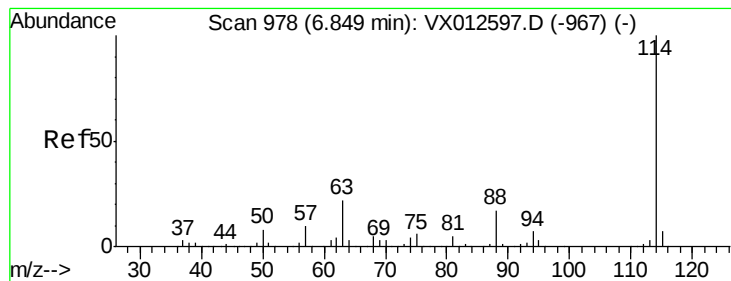
65 100

67 52.4 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

ClientSampled :

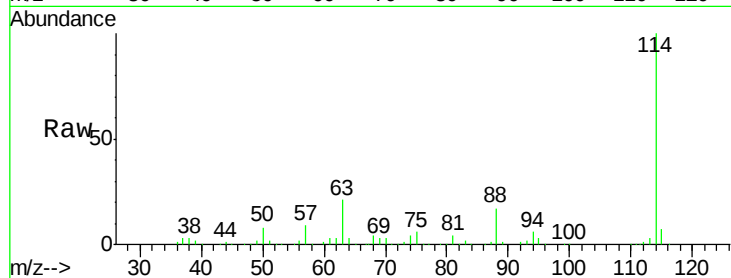
Tot Ion:114 Resp: 270312

Ion Ratio Lower Upper

114 100

63 21.4 0.0 43.2

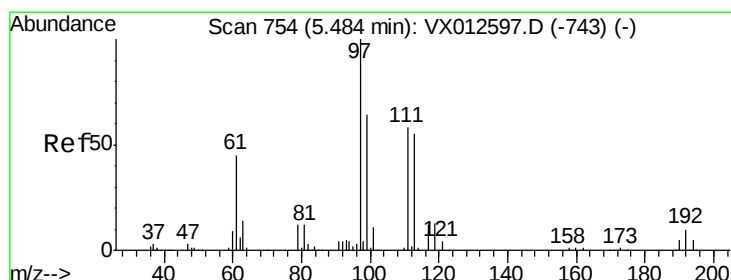
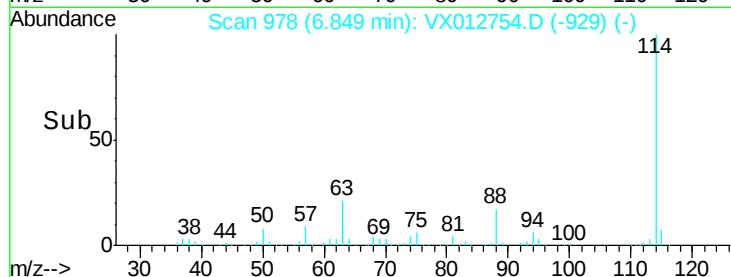
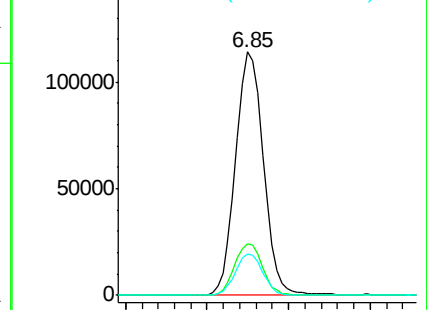
88 17.0 0.0 33.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 51.327 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

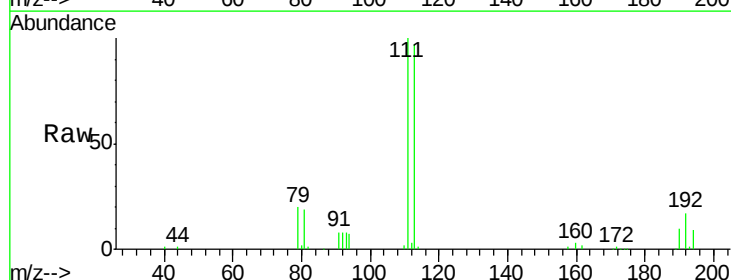
Tgt Ion:113 Resp: 82627

Ion Ratio Lower Upper

113 100

111 101.1 83.4 125.2

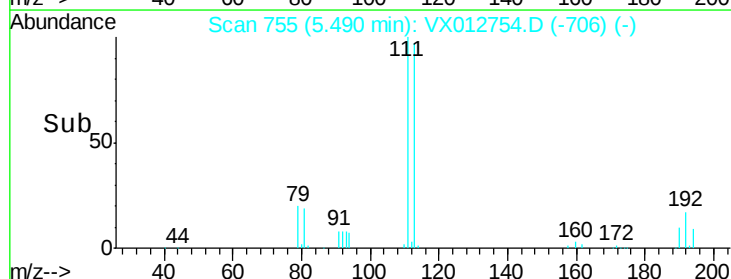
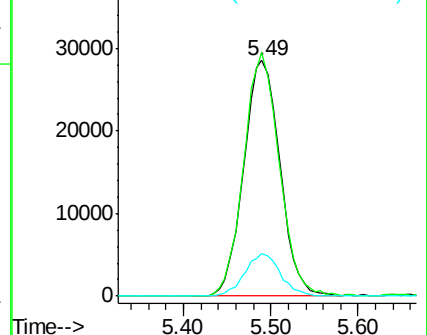
192 17.7 14.4 21.6

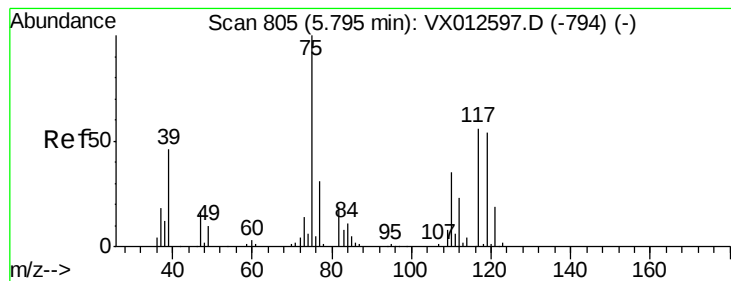


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.893 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

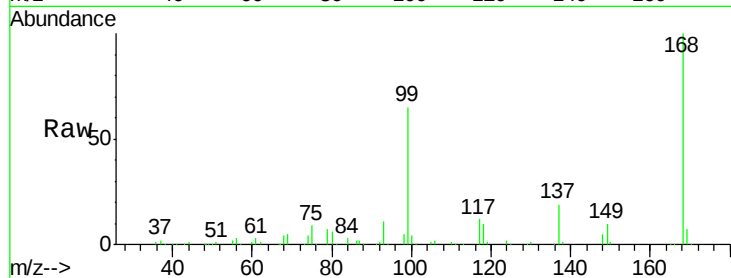
Tot Ion: 75 Resp: 12749

Ion Ratio Lower Upper

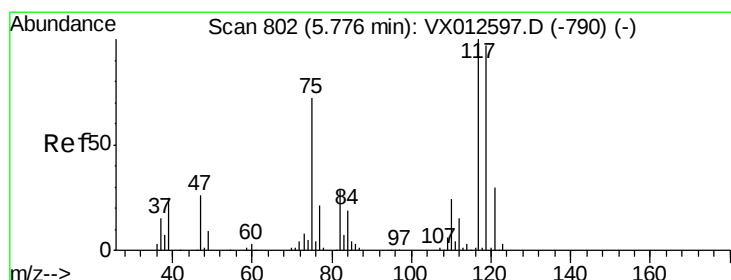
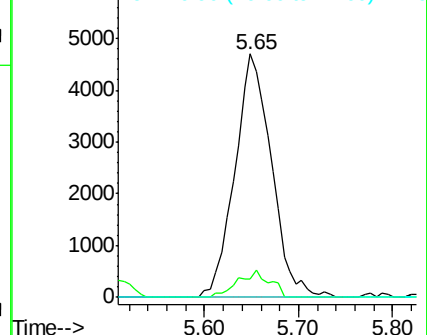
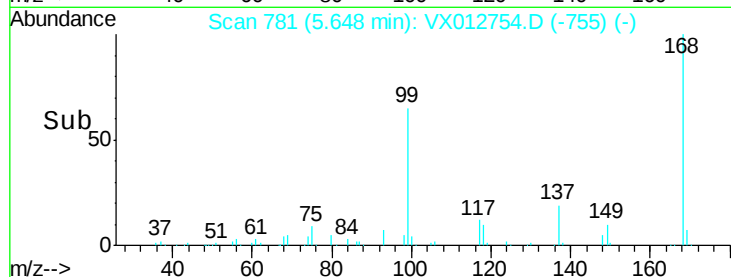
75 100

110 9.6 16.7 50.0#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VX012754.D (-755) (-)



#38

Carbon Tetrachloride

Concen: 6.365 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.13 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

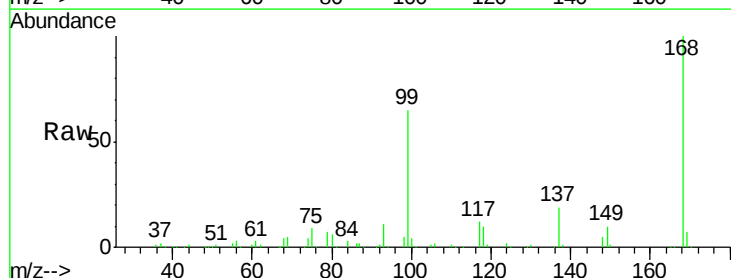
Tgt Ion: 117 Resp: 16847

Ion Ratio Lower Upper

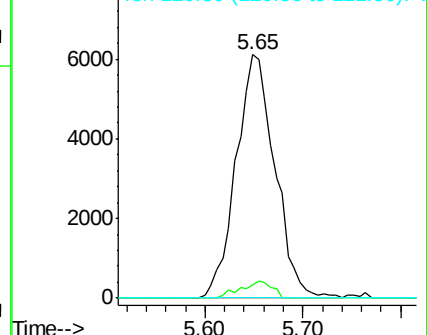
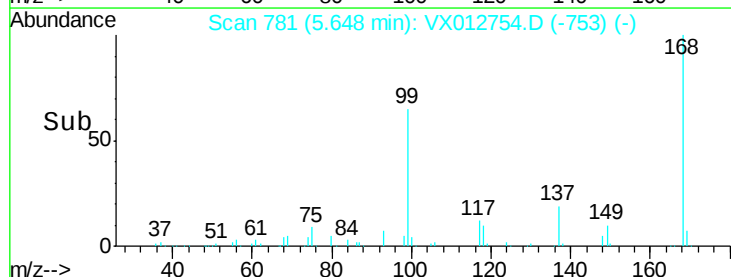
117 100

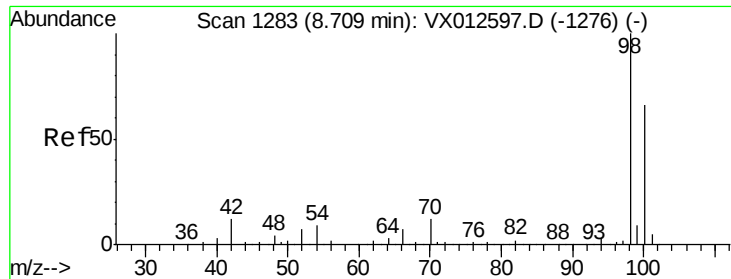
119 5.5 75.7 113.5#

121 0.0 24.2 36.4#



Abundance Ion 116.80 (116.50 to 117.50): VX012754.D (-753) (-)





#50

Toluene-d8

Concen: 51.005 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

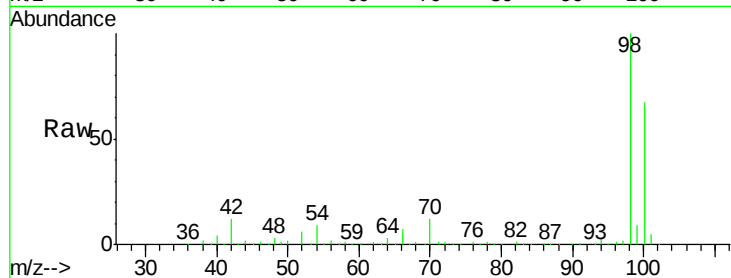
ClientSampleId :

Tot Ion: 98 Resp: 316207

Ion Ratio Lower Upper

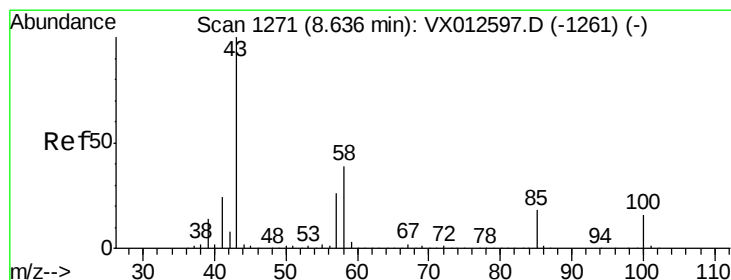
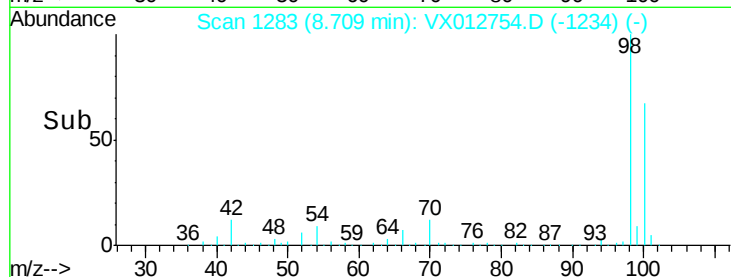
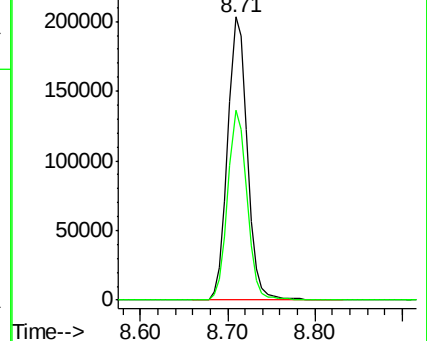
98 100

100 66.2 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.476 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.08 min

Lab File: VX012754.D

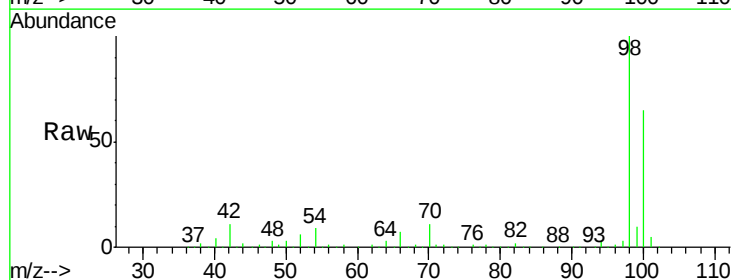
Acq: 02 Oct 2019 12:30

Tgt Ion: 43 Resp: 1497

Ion Ratio Lower Upper

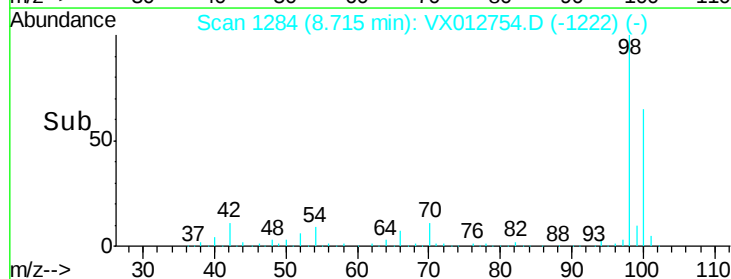
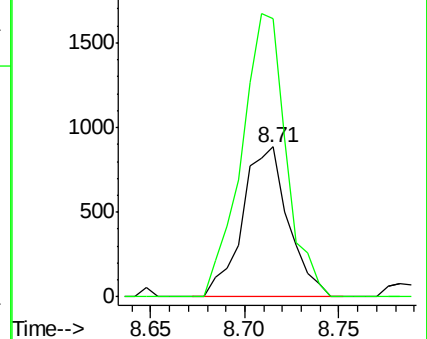
43 100

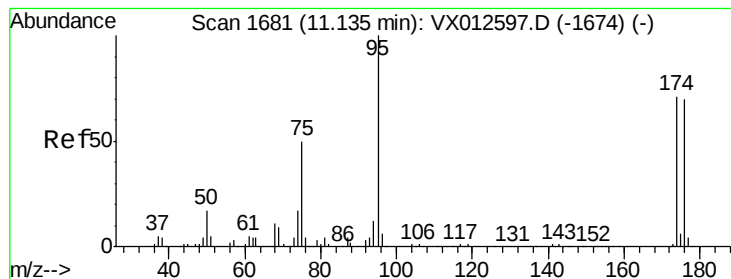
58 182.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 39.998 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

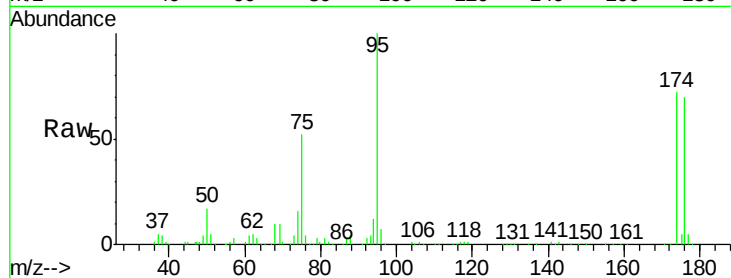
Tot Ion: 95 Resp: 97502

Ion Ratio Lower Upper

95 100

174 69.9 0.0 140.0

176 66.5 0.0 135.4

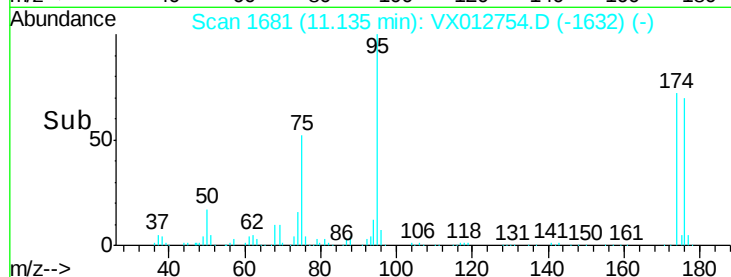


Abundance Ion 94.90 (94.60 to 95.60): VX012597.D (-1674) (-)

Ion 173.80 (173.50 to 174.50): VX012597.D (-1674) (-)

Ion 175.80 (175.50 to 176.50): VX012597.D (-1674) (-)

Time-->

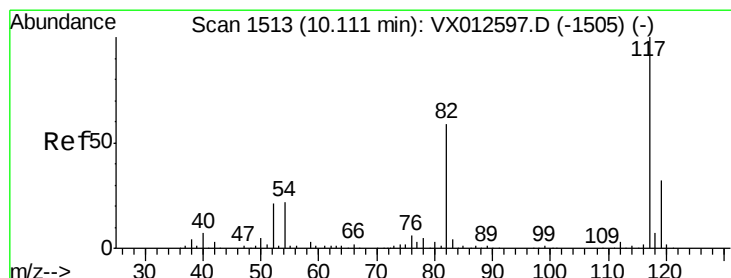


Abundance Ion 94.90 (94.60 to 95.60): VX012754.D (-1632) (-)

Ion 173.80 (173.50 to 174.50): VX012754.D (-1632) (-)

Ion 175.80 (175.50 to 176.50): VX012754.D (-1632) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

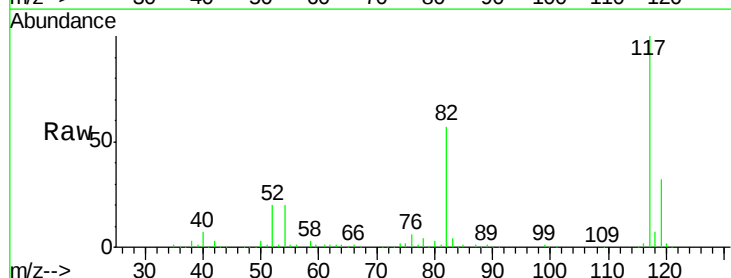
Tgt Ion: 117 Resp: 220295

Ion Ratio Lower Upper

117 100

82 56.8 45.9 68.9

119 32.4 25.3 37.9

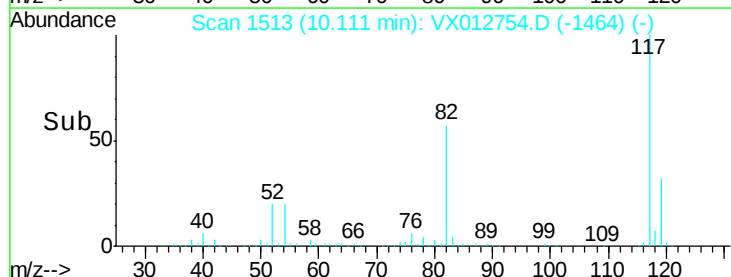


Abundance Ion 116.90 (116.60 to 117.60): VX012597.D (-1505) (-)

Ion 82.00 (81.70 to 82.70): VX012597.D (-1505) (-)

Ion 118.90 (118.60 to 119.60): VX012597.D (-1505) (-)

Time-->

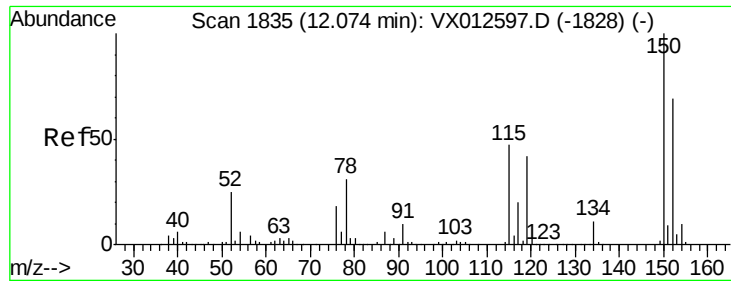


Abundance Ion 116.90 (116.60 to 117.60): VX012754.D (-1464) (-)

Ion 82.00 (81.70 to 82.70): VX012754.D (-1464) (-)

Ion 118.90 (118.60 to 119.60): VX012754.D (-1464) (-)

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

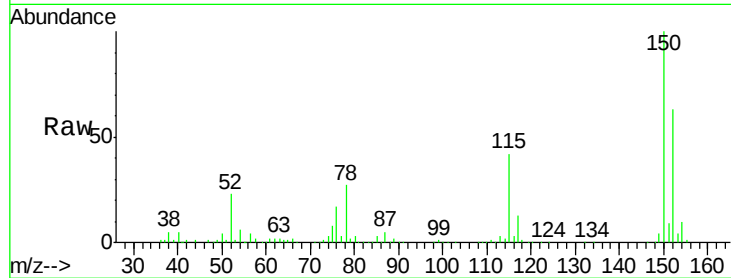
Tot Ion:152 Resp: 74339

Ion Ratio Lower Upper

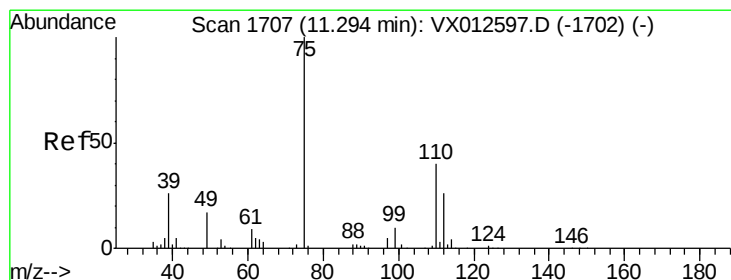
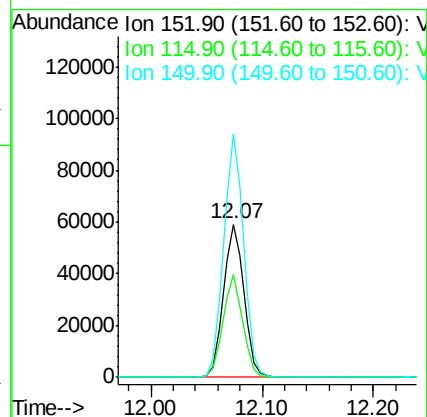
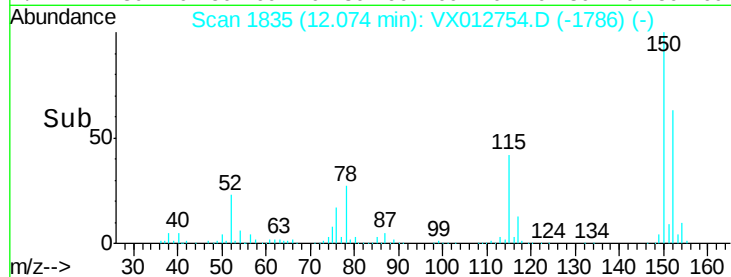
152 100

115 65.1 44.1 132.3

150 156.6 0.0 343.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.176 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX012754.D

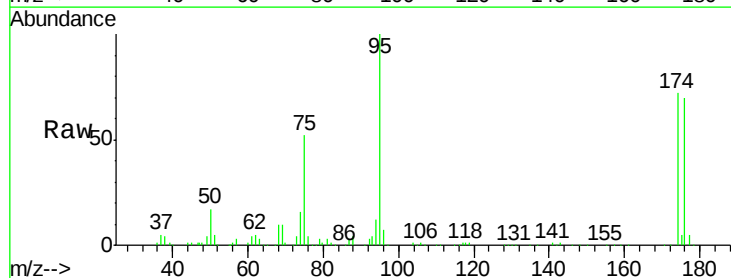
Acq: 02 Oct 2019 12:30

Tgt Ion: 75 Resp: 49508

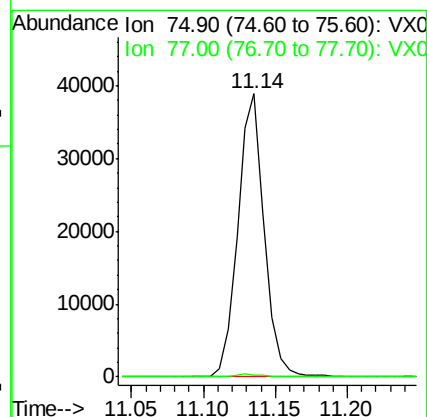
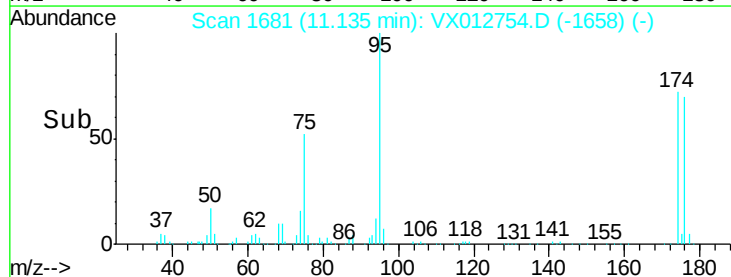
Ion Ratio Lower Upper

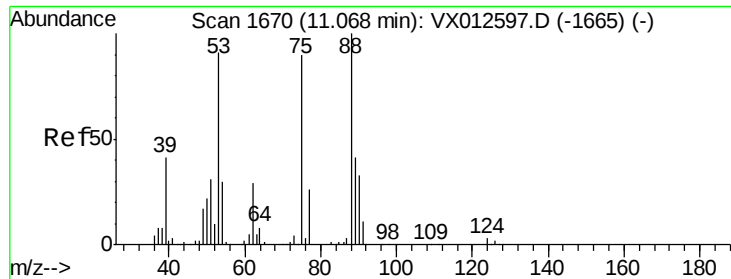
75 100

77 1.2 19.7 59.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 72.150 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX012754.D

Acq: 02 Oct 2019 12:30

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 49508

Ion Ratio Lower Upper

75 100

53 0.0 83.6 125.4#

89 0.1 36.3 54.5#

